EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1217	719/328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
L2	7	l1 and (predic$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
L3	3	l1 and (estimat$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
L4	1767	709/231.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
L5	20	l4 and (predic$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L6	15	l4 and (estimat$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08
L7	9638	709/203,201-202.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
L8	1442	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
L9	25797	709/204,217-227.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06

EAST Search History

L10	12337	709/230,232-247.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
L11	934	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L12	3128	719/311-318.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L13	1699	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L14	3015	718/101-104.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L15	46183	l7 or l8 or l9 or l10 or l11 or l12 or l13 or l14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L16	381	l15 and (predic$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
L17	184	l15 and (estimat$5 near5 model$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08
L18	488	l16 or l17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08
L19	113	l18 and stream$5 same (sequenc$5 or order$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08

EAST Search History

S1	4	raz-uri$.in.	USPAT; EPO; JPO	OR	ON	2003/11/02 12:36
S2	2	volk-Yehuda$.in.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:32
S3	2	melamed-shmuel$.in.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:42
S4	1	"6574618".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:44
S5	1	"6292827".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:44
S6	2274	network and applet and java	USPAT; EPO; JPO	OR	ON	2003/09/15 16:30
S7	868	(network and applet and java) and stream$3	USPAT; EPO; JPO	OR	ON	2003/09/15 16:05
S8	776	((network and applet and java) and stream$3) and request	USPAT; EPO; JPO	OR	ON	2003/09/15 16:06
S9	324	(((network and applet and java) and stream$3) and request) and compress$3	USPAT; EPO; JPO	OR	ON	2003/09/15 16:06
S10	134	((((network and applet and java) and stream$3) and request) and compress$3) and notificat$4	USPAT; EPO; JPO	OR	ON	2003/09/15 16:07
S11	133	(((((network and applet and java) and stream$3) and request) and compress$3) and notificat$4) and server	USPAT; EPO; JPO	OR	ON	2003/09/15 16:07
S12	130	((((((network and applet and java) and stream$3) and request) and compress$3) and notificat$4) and server) and client	USPAT; EPO; JPO	OR	ON	2003/09/15 16:08
S13	6	(((((((network and applet and java) and stream$3) and request) and compress$3) and notificat$4) and server) and client) and (stream$3 near5 web$8)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:19
S14	43	(network and applet and java) and (identify$3 same web same related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:31
S15	0	((network and applet and java) and (identify$3 same web same related)) and (identify$3 adj related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:32
S16	2	((network and applet and java) and (identify$3 same web same related)) and (identify$3 adj3 related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:33
S17	49	(network and applet and java) and (identify$3 near5 related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:34

EAST Search History

S18	1	"6408294".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 18:27
S19	14	server and client and JAR and ZIP and size	USPAT	OR	ON	2003/09/17 14:37
S20	12	(server and client and JAR and ZIP and size) and stream$3	USPAT	OR	ON	2003/09/17 14:38
S21	9	((server and client and JAR and ZIP and size) and stream$3) and compress$3	USPAT	OR	ON	2003/09/17 14:38
S22	9	(((server and client and JAR and ZIP and size) and stream$3) and compress$3) and applet	USPAT	OR	ON	2003/09/17 14:38
S23	9	((((server and client and JAR and ZIP and size) and stream$3) and compress$3) and applet) and Java	USPAT	OR	ON	2003/09/17 14:38
S24	0	(((((server and client and JAR and ZIP and size) and stream$3) and compress$3) and applet) and Java) and (Java adj Micro adj Edition)	USPAT	OR	ON	2003/09/17 14:39
S25	4	(((((server and client and JAR and ZIP and size) and stream$3) and compress$3) and applet) and Java) and (digital adj signature)	USPAT	OR	ON	2003/09/17 14:44
S26	1	"6311221".pn.	USPAT; EPO; JPO	OR	ON	2003/09/24 21:49
S27	3612	network and server and client and java	USPAT	OR	ON	2003/09/24 22:22
S28	1454	(network and server and client and java) and stream$5	USPAT	OR	ON	2003/09/24 22:22
S29	94	((network and server and client and java) and stream$5) and purg$5	USPAT	OR	ON	2003/09/24 22:22
S30	80	(((network and server and client and java) and stream$5) and purg$5) and path	USPAT	OR	ON	2003/09/24 22:23
S31	66	((((network and server and client and java) and stream$5) and purg$5) and path) and algorithm	USPAT	OR	ON	2003/09/24 22:23
S32	65	(((((network and server and client and java) and stream$5) and purg$5) and path) and algorithm) and web$8	USPAT	OR	ON	2003/09/24 22:26
S33	2	(("6,615,258") or ("6,408,294")).PN.	USPAT; USOCR	OR	OFF	2004/02/02 22:28
S34	1	("6,289,382").PN.	USPAT; USOCR	OR	OFF	2003/09/25 01:01

EAST Search History

S35	1	("6311221").PN.	USPAT; USOCR	OR	OFF	2003/11/02 12:37
S36	24161	(JAR or (Java adj archieve adj file))	USPAT	OR	ON	2003/11/02 14:11
S37	4161	((JAR or (Java adj archieve adj file))) and stream$	USPAT	OR	ON	2003/11/02 13:24
S38	471	(((JAR or (Java adj archieve adj file))) and stream$) and predict$	USPAT	OR	ON	2003/11/02 13:25
S39	39	((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine	USPAT	OR	ON	2003/11/02 13:28
S40	10	(((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java	USPAT	OR	ON	2003/11/02 13:28
S41	7	((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server	USPAT	OR	ON	2003/11/02 13:29
S42	7	(((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server) and model$	USPAT	OR	ON	2003/11/02 13:29
S43	4	((((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server) and model$) and library	USPAT	OR	ON	2003/11/02 13:26
S44	4	((((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server) and model$) and compress$	USPAT	OR	ON	2003/11/02 13:29
S45	3	(((((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server) and model$) and compress$) and (((((((((JAR or (Java adj archieve adj file))) and stream$) and predict$) and engine) and java) and client and server) and model$) and library)	USPAT	OR	ON	2003/11/02 13:27
S46	252	(((JAR or (Java adj archieve adj file))) and stream$) and engine	USPAT	OR	ON	2003/11/02 13:28
S47	22	((((JAR or (Java adj archieve adj file))) and stream$) and engine) and java	USPAT	OR	ON	2003/11/02 13:28
S48	16	((((((JAR or (Java adj archieve adj file))) and stream$) and engine) and java) and client and server) and model$	USPAT	OR	ON	2003/11/02 13:29

EAST Search History

S49	8	(((((((JAR or (Java adj archieve adj file))) and stream$) and engine) and java) and client and server) and model$) and compress$	USPAT	OR	ON	2003/11/02 13:30
S50	18	(((((JAR or (Java adj archieve adj file))) and stream$) and engine) and java) and client and server	USPAT	OR	ON	2003/11/02 13:30
S51	1	("6,408,294").PN.	USPAT; USOCR	OR	OFF	2003/11/02 13:58
S52	1	("4253561").PN.	USPAT; USOCR	OR	OFF	2003/11/02 14:07
S53	2003	engine and java	USPAT	OR	ON	2003/11/02 14:11
S54	85	(engine and java) and (engine same predict$)	USPAT	OR	ON	2003/11/02 14:12
S55	62	((engine and java) and (engine same predict$)) and stream$	USPAT	OR	ON	2003/11/02 14:12
S56	25	(((engine and java) and (engine same predict$)) and stream$) and (predict$ same model$)	USPAT	OR	ON	2003/11/02 14:12
S57	1	(US-6523027-$).did.	USPAT	OR	OFF	2003/11/02 14:20
S58	1	"6574618"	USPAT	OR	OFF	2003/11/02 14:21
S59	1	"6574618".pn.	USPAT	OR	OFF	2003/11/02 15:44
S60	0	"6574618".URPN.	USPAT	OR	OFF	2003/11/02 14:22
S61	2	"6311221".URPN.	USPAT	OR	OFF	2003/11/02 14:24
S62	223	streamlet	USPAT	OR	ON	2003/11/02 15:44
S63	1	(streamlet and stream$) and (java or jar)	USPAT	OR	ON	2003/11/02 15:45
S64	1	streamlet and (streamlet same predict)	USPAT	OR	ON	2003/11/02 16:50
S65	14	streamlet and (streamlet same predict$)	USPAT	OR	ON	2003/11/02 15:46
S66	4870	stream$ same predict$	USPAT	OR	ON	2003/11/02 15:48
S67	82	(stream$ same predict$) and (java or Jar)	USPAT	OR	ON	2003/11/02 15:49
S68	1	((stream$ same predict$) and (java or Jar)) and (java and Jar)	USPAT	OR	ON	2003/11/02 15:48
S69	64	(stream$ same predict$) and (java)	USPAT	OR	ON	2003/11/02 15:49
S70	34	((stream$ same predict$) and (java)) and engine	USPAT	OR	ON	2003/11/02 15:52
S71	392	advertise$5 same stream$	USPAT	OR	ON	2003/11/02 15:52
S72	308	(advertise$5 same stream$) and (internet or network)	USPAT	OR	ON	2003/11/02 15:53

EAST Search History

S73	1	((advertise$5 same stream$) and (internet or network)) and (JAR same stream$)	USPAT	OR	ON	2003/11/02 15:54
S74	0	"6625581".URPN.	USPAT	OR	OFF	2003/11/02 16:32
S75	1	"6625581".pn. and (stream$ same file)	USPAT	OR	ON	2003/11/02 16:32
S76	1	streamlet and (streamlet same map$)	USPAT	OR	ON	2003/11/02 16:52
S77	223	streamlet and stream$	USPAT	OR	ON	2003/11/02 16:50
S78	5363	stream$ same map$	USPAT	OR	ON	2003/11/02 16:56
S79	248	(stream$ same map$) and java	USPAT	OR	ON	2003/11/02 16:52
S80	126	((stream$ same map$) and java) and library	USPAT	OR	ON	2003/11/02 16:52
S81	91	(((stream$ same map$) and java) and library) and engine	USPAT	OR	ON	2003/11/02 16:53
S82	78	((((stream$ same map$) and java) and library) and engine) and track$	USPAT	OR	ON	2003/11/02 16:56
S83	14	"6292827".URPN.	USPAT	OR	OFF	2003/11/02 17:03
S84	1	("6427149").PN.	USPAT; USOCR	OR	OFF	2004/02/02 19:22
S85	2	"6535894"	USPAT	OR	OFF	2004/02/02 19:30
S86	1	("6148340").PN.	USPAT; USOCR	OR	OFF	2004/02/02 19:56
S87	1	("6230184").PN.	USPAT; USOCR	OR	OFF	2004/02/02 20:00
S88	0	java adj micro adj edition	USPAT	OR	OFF	2004/02/02 20:00
S89	1	J2ME	USPAT	OR	OFF	2004/02/02 20:00
S90	1	("6535894").PN.	USPAT; USOCR	OR	OFF	2004/02/02 23:10
S91	1	("6,427,149").PN.	USPAT; USOCR	OR	OFF	2004/02/02 23:10
S92	1	("6,230,184").PN.	USPAT; USOCR	OR	OFF	2004/02/03 15:33
S93	1	weight same (path near5 algorithm) same stream$3	USPAT	OR	ON	2004/05/07 12:49
S94	8	weight same (path near5 algorithm) same stream$3	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58
S95	11	weight same (path same algorithm) same stream$3	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58
S96	3	(weight same (path same algorithm) same stream$3) not (weight same (path near5 algorithm) same stream$3)	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58

EAST Search History

S97	85	(path near5 algorithm) same stream$3	US-PGPUB; USPAT	OR	ON	2004/02/03 16:32
S98	53	(path near5 algorithm) same stream$3	USPAT	OR	ON	2004/02/03 15:58
S99	52	((path near5 algorithm) same stream$3) not (weight same (path same algorithm) same stream$3) not (weight same (path near5 algorithm) same stream$3)	USPAT	OR	ON	2004/02/03 16:02
S100	19	(((path near5 algorithm) same stream$3) not (weight same (path same algorithm) same stream$3) not (weight same (path near5 algorithm) same stream$3)) and weight$3	USPAT	OR	ON	2004/02/03 16:02
S101	8	(frequent$2 near3 used near2 file) same stream$3	US-PGPUB; USPAT	OR	ON	2004/02/03 19:06
S102	12	(common$2 near3 used near2 file) same stream$3	US-PGPUB; USPAT	OR	ON	2004/02/03 16:36
S103	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/02/03 22:51
S104	24	"6085193".URPN.	USPAT	OR	OFF	2004/02/03 22:34
S105	1	("5878223").PN.	USPAT; USOCR	OR	OFF	2004/02/03 23:01
S106	1	("6463508").PN.	USPAT; USOCR	OR	OFF	2004/02/04 00:49
S107	2	(("6065046") or ("5802292")).PN.	USPAT; USOCR	OR	OFF	2004/02/04 00:53
S108	91	cache near3 (purg$3 or replac$3) same server	USPAT	OR	ON	2004/02/04 00:55
S109	3	cache near3 (purg$3 or replac$3) near3 manager same server	USPAT	OR	ON	2004/02/04 00:57
S110	8	cache near3 (purg$3 or replac$3) same proxy same server	USPAT	OR	ON	2004/02/04 00:57
S111	1	("6463508").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:07
S112	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:11
S113	1	("6,205,481").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:11
S114	1	("6,272,598").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:12
S115	1	("6,393,526").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:12

EAST Search History

S116	1	("6,622,168").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:16
S117	1	("6,408,294").PN.	USPAT; USOCR	OR	OFF	2004/05/07 11:02
S118	1	("6,427,149").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:21
S119	1	(("6,408,294").PN.) and (advertis$8 near8engine)	USPAT	OR	OFF	2004/05/07 11:03
S120	1	(("6,408,294").PN.) and (advertis$8 same engine)	USPAT	OR	OFF	2004/05/07 11:03
S121	1	("6,412,004").PN.	USPAT; USOCR	OR	OFF	2004/05/07 13:10
S122	1	("5,768,528").PN.	USPAT; USOCR	OR	OFF	2004/05/07 14:30
S123	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:10
S124	1	("5727178").PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:12
S125	2	(("6081665") or ("6542920")).PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:12
S126	74	JAR near5 stream	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:20
S127	3	JAR near5 stream same plug$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:21
S128	38	JAR and java and (stream$3 same plug$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:27
S129	3	realplayer and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:39
S130	4	Quicktime and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:47
S131	124	player and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:47
S132	68	(player same application) and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 10:13
S133	1	("6427149").PN.	USPAT; USOCR	OR	OFF	2004/09/30 10:13

Terms used
streaming application client executable predict estimate

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1 Optimization of query streams using semantic prefetching
Ivan T. Bowman, Kenneth Salem
December 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Streams of relational queries submitted by client applications to database servers contain patterns that can be used to predict future requests. We present the Scalpel system, which detects these patterns and optimizes request streams using context-based predictions of future requests. Scalpel uses its predictions to provide a form of semantic prefetching, which involves combining a predicted series of requests into a single request that can be issued immediately. Scalpel's semantic prefetching ...

Keywords: Prefetching, query streams

2 Research sessions: non-standard query processing: Optimization of query streams using semantic prefetching
Ivan T. Bowman, Kenneth Salem
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(224.40 KB) Additional Information: full citation, abstract, references

Streams of relational queries submitted by client applications to database servers contain patterns that can be used to predict future requests. We present the Scalpel system, which detects these patterns and optimizes request streams using context-based predictions of future requests. Scalpel uses its predictions to provide a form of semantic prefetching, which involves combining a predicted series of requests into a single request that can be issued immediately. Scalpel's semantic prefetching ...

3 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Real-time video content analysis: QoS-aware application composition and parallel processing

Viktor S. Wold Eide, Ole-Christoffer Granmo, Frank Eliassen, Jørgen Andreas Michaelsen

May 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(393.86 KB) Additional Information: full citation, abstract, references, index terms

Real-Time content-based access to live video data requires content analysis applications that are able to process video streams in real-time and with an acceptable error rate. Statements such as this express quality of service (QoS) requirements. In general, control of the QoS provided can be achieved by sacrificing application quality in one QoS dimension for better quality in another, or by controlling the allocation of processing resources to the application. However, controlling QoS in video ...

Keywords: QoS and resource management, Real-Time video content analysis, event-based communication, parallel processing, publish/subscribe, task graph scheduling

5 Wide-area architecture and protocols: Executing incoherency bounded continuous queries at web data aggregators

Rajeev Gupta, Ashish Puri, Krithi Ramamritham

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(262.38 KB) Additional Information: full citation, abstract, references, index terms

Continuous queries are used to monitor changes to time varying data and to provide results useful for online decision making. Typically a user desires to obtain the value of some function over distributed data items, for example, to determine when and whether (a) the traffic entering a highway from multiple feed roads will result in congestion in a thoroughfare or (b) the value of a stock portfolio exceeds a threshold. Using the standard Web infrastructure for these applications will increase th ...

Keywords: Markov model, coherency, continuous queries, fidelity, online decision making

6 Session 2: Contents provider-assisted dynamic voltage scaling for low energy multimedia applications

Eui-Young Chung, Giovanni De Micheli, Luca Benini

August 2002 **Proceedings of the 2002 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available: pdf(253.91 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new concept of DVS (*Dynamic Voltage Scaling*) for multimedia applications. Many multimedia applications have a periodic property, but each period shows a large variation in terms of its execution time. Exact estimation of such variation is a crucial factor for low energy software execution with DVS technique. Previous DVS

techniques focused only on end users (client sites) and their quality heavily depends on the accurateness of the worst case execution time estimatio ...

Keywords: DVS(Dynamic Voltage Scaling), characterization, contents provider, low-power, multimedia, worst case execution time

7 Executing multiple pipelined data analysis operations in the grid

Matthew Spencer, Renato Ferreira, Michael Beynon, Tahsin Kurc, Umit Catalyurek, Alan Sussman, Joel Saltz

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

Full text available: pdf(158.51 KB) Additional Information: full citation, abstract, references, index terms

Processing of data in many data analysis applications can be represented as an acyclic, coarse grain data flow, from data sources to the client. This paper is concerned with scheduling of multiple data analysis operations, each of which is represented as a pipelined chain of processing on data. We define the scheduling problem for effectively placing components onto Grid resources, and propose two scheduling algorithms. Experimental results are presented using a visualization application.

8 Managing battery lifetime with energy-aware adaptation

Jason Flinn, M. Satyanarayanan

May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, index terms

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply and demand and ...

Keywords: Power management, adaptation

9 Survey of code-size reduction methods

Árpád Beszédes, Rudolf Ferenc, Tibor Gyimóthy, André Dolenc, Konsta Karsisto

September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3

Publisher: ACM Press

Full text available: pdf(443.89 KB) Additional Information: full citation, abstract, references, index terms

Program code compression is an emerging research activity that is having an impact in several production areas such as networking and embedded systems. This is because the reduced-sized code can have a positive impact on network traffic and embedded system costs such as memory requirements and power consumption. Although code-size reduction is a relatively new research area, numerous publications already exist on it. The methods published usually have different motivations and a variety of appli ...

Keywords: code compaction, code compression, method assessment, method evaluation

10 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff

Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

11 Software Streaming via Block Streaming
Pramote Kuacharoen, Vincent J. Mooney, Vijay K. Madisetti
March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**
Publisher: IEEE Computer Society
Full text available: pdf(168.48 KB) Publisher Site Additional Information: full citation, abstract, index terms

Software streaming allows the execution of stream-enabled software on a device even while the transmission/streaming may still be in progress. Thus, the software can be executed while it is being streamed instead of causing the user to wait for the completion of download, decompression, installation and reconfiguration. Our streaming method can reduce application load time seen by the user since the application can start running as soon as the first executable unit is loaded into the memory. Fur ...

12 Cache investment: integrating query optimization and distributed data placement
Donald Kossmann, Michael J. Franklin, Gerhard Drasch, Wig Ag
December 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(210.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Emerging distributed query-processing systems support flexible execution strategies in which each query can be run using a combination of data shipping and query shipping. As in any distributed environment, these systems can obtain tremendous performance and availability benefits by employing dynamic data caching. When flexible execution and dynamic caching are combined, however, a circular dependency arises: Caching occurs as a by-product of query operator placement, but query operator pl ...

Keywords: cache investment, caching, client-server database systems, data shipping, dynamic data placement, query optimization, query shipping

13 An analytical model for multi-tier internet services and its applications
Bhuvan Urgaonkar, Giovanni Pacifici, Prashant Shenoy, Mike Spreitzer, Asser Tantawi
June 2005 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '05**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(228.46 KB) Additional Information: full citation, abstract, references, index terms

Since many Internet applications employ a multi-tier architecture, in this paper, we focus on the problem of analytically modeling the behavior of such applications. We present a model based on a network of queues, where the queues represent different tiers of the

application. Our model is sufficiently general to capture (i) the behavior of tiers with significantly different performance characteristics and (ii) application idiosyncrasies such as session-based workloads, concurrency limits, and c ...

Keywords: MVA algorithm, internet application, queuing model

14 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

15 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis
June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

16 Replicating memory behavior for performance prediction

Aditya Toomula, Jaspal Subhlok
October 2004 **Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems LCR '04**
Publisher: ACM Press

Full text available: pdf(204.96 KB) Additional Information: full citation, abstract, references

This paper introduces a method to monitor an application and generate a short synthetic "memory skeleton" program whose memory access pattern is representative of the application. In particular, the application and its memory skeleton should have similar cache behavior on any memory hierarchy architecture. The objective is to quickly estimate the cache performance of an application on any memory architecture by running its memory skeleton. The paper presents and validates a framework for automat ...

17 Quality of service in an information economy

R. Braumandl, A. Kemper, D. Kossmann

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
Publisher: ACM Press

Full text available: pdf(829.15 KB) Additional Information: full citation, abstract, references, citings, index terms

Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be too high if the ...

Keywords: Quality of Service

18 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

19 Self-tuning wireless network power management

Manish Anand, Edmund B. Nightingale, Jason Flinn
July 2005 **Wireless Networks**, Volume 11 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, index terms

Current wireless network power management often substantially degrades performance and may even increase overall energy usage when used with latency-sensitive applications. We propose self-tuning power management (STPM) that adapts its behavior to the access patterns and intent of applications, the characteristics of the network interface, and the energy usage of the platform. We have implemented STPM as a Linux kernel module--our results show substantial benefits for distributed file systems, s ...

Keywords: 802.11, power management, self-tuning

20 Special issue: dasCMP'05: The RASE (Rapid, Accurate Simulation Environment) for chip multiprocessors

John D. Davis, Cong Fu, James Laudon
November 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 4
Publisher: ACM Press

Full text available: pdf(210.01 KB) Additional Information: full citation, abstract, references, index terms

We present RASE, a full system high performance simulation methodology for simulating complex server applications and server class chip multiprocessors enabled with fine-grain multithreading (CMTs). RASE combines application knowledge, operating system information, and data access patterns with an instruction stream from a highly-tuned, scalable steady-state benchmark [5] [22] to generate multiple representative instruction streams that can be mapped to a variety of CMT configurations. We use ex ...

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
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